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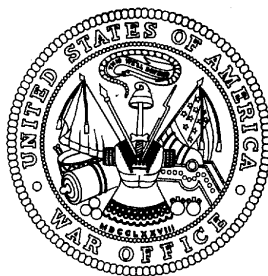
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JOINT PHOTOGRAPHIC INTELLIGENCE MEMORANDUM

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RAILROAD YARDS AND SHOPS
BARNAUL/CHESNOKOVKA, USSR



ARMY



CIA

HTA/JM-2/58

21 MARCH 1958



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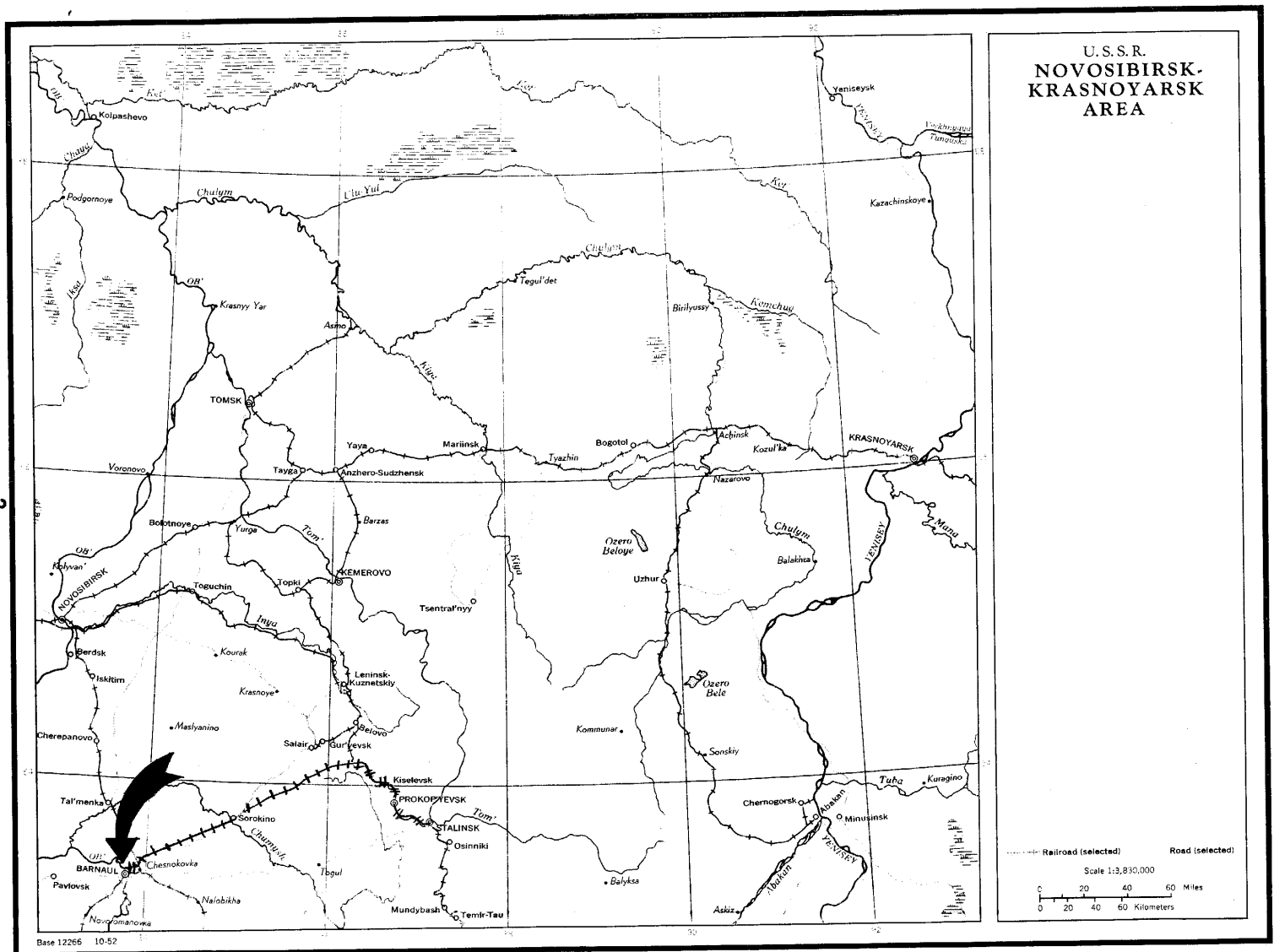
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RAILROAD YARDS AND SHOPS
BARNAUL /CHESNOKOVKA, USSR

HTA/JM-2/58

21 March 1958

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RAILROAD YARDS AND SHOPS
BARNAUL/CHESNOKOVKA, USSR

Barnaul is an important center of diversified industry in West Siberia, located on the Ob River, 115 miles south of Novosibirsk and 140 miles west of Stalinsk. Chesnokovka is located about five miles east of Barnaul on the opposite bank of the Ob River. The Barnaul/Chesnokovka area is the junction point of the South Siberian and the Turkestan-Siberian railroads.

The Barnaul/Chesnokovka rail complex includes the Railroad Station, Yards and Shops, Main, and a Railroad Car Repair Plant, both located in Barnaul, as well as the Railroad Station, Yards, and Shops, Altayskaya and the Railroad Car Manufacturing Plant, Altayskaya, which are located in Chesnokovka. The major components of these installations are annotated on the following photographs and sketch and are described in accompanying keys.

The area is covered by photography of
local standard time. Fifteen locomotives and approximately 2,000 railroad cars, in trains or lines of 15 or more cars, were present in the two rail yards. Detailed data on these cars and locomotives are presented in Tables 1 through 4.

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KEY TO ANNOTATIONS

BARNAUL RAIL FACILITIES

Railroad Station, Yards, and Shops, Main

1. Railroad bridge over the Ob River, single track, 2,640' long, wide. Consists of 7 steel through-truss spans, each 360' long, and 2 deck-type approach spans, each 60' long. A second steel through-truss bridge using the same concrete piers is under construction, and 4 of the 7 spans are complete at the time of photography.
2. Choke points. Over-all length of installations, 10,500'.
3. Holding yard, 6 tracks wide, 3,000' long.
4. Holding yard, 2 tracks wide, 1,260' long.
5. Passenger loading/unloading platform, concrete, 1,000' x 20'.
6. Turning wye, effective length 250'.
7. Passenger way station, 125' x 25', with adjoining concrete loading/unloading platform, 1,000' x 20'.
8. Double-track rail line through narrow cut.
9. Holding yard, 12 tracks wide, 1,300' long; 11 tracks dead-end.
10. Locomotive servicing facilities.
 - Servicing yard, 6 tracks wide, 1,900' long.
 - Overhead watering facility, 100' x 20', over three tracks; 30' diameter water tank.
 - Overhead coaling facility, 130' x 40', over four tracks; connected to coal unloader.
 - Locomotive servicing building, 115' x 60', with two through tracks.
 - Turntable, 100' diameter.
 - Two storage buildings, 220' x 35' and 80' x 25'.

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KEY TO ANNOTATIONS (continued)

11. Holding yard, 7 tracks wide, 1,700' long.
12. Locomotive repair facilities.
 - Locomotive repair yard, 17 tracks wide, 900' long.
 - Two locomotive repair shops, 170' x 90' with 5 tracks entering, and 180' x 100' with 9 tracks entering.
 - Five machine shops, 170' x 25', 140' x 100', 130' x 35', 100' x 40', and 90' x 35'.
 - Roundhouse, 18 stalls, with 65' diameter turntable.
 - Three storage buildings, 80' x 35', 75' x 25', and 60' x 35'.
 - Water tower, 25' diameter.
13. New administration building under construction, 390' x 130'.
14. Passenger station, 190' x 40'.
15. Classification yard, 25 tracks wide; 4,200' maximum length, 1,650' average length.
16. Two freight yards. One, 5 tracks wide and 1,200' long, serves 3 storage buildings, 300' x 65', 150' x 45', and 150' x 35'. The other, 5 tracks wide and 850' long, serves 2 freight warehouses, 400' x 50' and 155' x 35'.

Barnaul Railroad Car Repair Plant

1. POL storage area, approximately 200' x 110'. Contains one vertical tank, 15' diameter and approximately 15' high, and 9 small horizontal tanks, 25'-40' long, 5'-10' wide.
2. Lumber storage area.
3. Probable car repair shop under construction 240' x 100'.
4. Workshop building, 125' x 40' with one track entering.

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KEY TO ANNOTATIONS (continued)

5. Car repair shop, 360' x 60' with two through tracks.
 6. Probable wheel shop and machine shop, a large, irregular-shaped building with total roof cover of 60,000 sq. ft., with 3 through tracks.
 7. Two administration buildings, 140' x 75' and 110' x 50'.
 8. Road entrance to installation.
 9. Heat and steam plant, L-shaped, 260' x 50', and 95' x 60'. Conveyor 190' long on west end of building. Possible cooling tower, 15' diameter.
 10. Forge, approximately 310' x 100'.
 11. Foundry, 190' x 65'. Two storage-type buildings, 115' x 25' and 80' x 25' are located along south side of foundry.
 12. Car repair shop, 330' x 155' with three through tracks.
 13. Lumber processing building, 435' x 65'.
 14. Car repair yard, 6 tracks wide, 1,200' long.
 15. Lumber kiln, 170' x 100', with attached boilerhouse, 50' x 40'.
 16. Lumber storage area.
 17. Car repair shop, 320' x 50' with two tracks entering.
 18. Workshop building, 190' x 60'.
 19. Rail entrance to installation.
- (Several additional storage buildings are scattered throughout the plant area.)

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KEY TO ANNOTATIONS
CHESNOKOVKA RAIL FACILITIES

Railroad Station, Yards, and Shops, Altayskaya

1. Choke points. Over-all length of installation, 17,600'.
2. Turning wye, effective length, 575'.
3. Holding yard, 6 tracks wide, 2,900' long.
4. Boilerhouse, 80' x 80', with detached stack.
5. Locomotive repair yard, 6 tracks wide, 620' long.
Locomotive repair shop, 195' x 130' with 6 tracks entering.
Workshop, 150' x 80'.
6. Fenced open storage area, 1550' x 340', served by 9 tracks.
7. Holding yard, 8 tracks wide, 2,800' long.
8. Receiving/forwarding yard, 8 tracks wide, 5400' long.
9. Passenger station, 115' x 50'.
Water tower, 35' diameter.
Overhead footbridge, 300' long.
10. Classification yard, 11 tracks wide; maximum length 5,300',
average length 2,900'.

Railroad Car Manufacturing Plant, Altayskaya

11. Lumber kiln, 340' x 35'.
12. Two shop buildings, 310' x 115' and 310' x 100'.
13. Car assembly shop, 560' x 210', with bridge crane along entire
east side of building.

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KEY TO ANNOTATIONS (continued)

14. Car assembly shop, 590' x 130'.
15. Probable metalworking shop, 590' x 80', with a bridge crane 280' long extending from south end of building.
16. Shop building, 695' x 125' (115' x 50' roof section under repair).
17. Lumber storage area.
18. Forge, 460' x 80'.
19. Two storage buildings, 200' x 50' and 130' x 100'.
20. Three shop buildings, 430' x 165', 380' x 130', and 300' x 100'.
21. Administration area. One T-shaped building, 100' x 50' and 80' x 50', one building 130' x 50', and six smaller buildings.
22. Boilerhouse, 200' x 65'.
23. Lumber processing area. One L-shaped shop building 100' x 100' with 100' x 35' wing, one shop 230' x 50', two storage buildings 150' x 50' and 195' x 35', and a few small buildings and lumber piles in the area.

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Table 1. Description of Trains and Lines of Cars (15 or more) present in Barnaul Railroad Station, Yards, and Shops, Main

Cars in Train (number)	Length of Train (feet)	4-Axle Cars (no. and type)	2-Axle Cars (no. and type)	Locomotives (no. and type)
19	870	7 Box 10 Gondola	2 Tank	None
21	820	12 Box	9 Box	None
31	1200	9 Box 2 Gondola 3 Passenger 1 Tank	11 Box 5 Gondola	1 Steam
17	700	9 Box 3 Gondola	5 Box	None
17	700	13 Box 1 Flat	3 Box	None
22	900	4 Box 5 Hopper	2 Box 4 Flat 7 Hopper	1 Steam
21	770	7 Box 1 Gondola 1 Hopper	11 Box 1 Gondola	None
32	1000	5 Box 2 Flat 2 Gondola	19 Box 3 Flat 1 Gondola	None
24	1000	8 Box 2 Gondola 6 Hopper	6 Box 2 Flat	None
23	900	20 Tank	3 Box	None

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Table 1. Description of Trains and Lines of Cars at Barnaul (cont'd)

Cars in Train (number)	Length of Train (feet)	2-Axle Cars (no. and type)	4-Axle Cars (no. and type)	Locomotives (no. and type)
46	1750	18 Box 4 Flat 1 Gondola	14 Box 9 Flat	None
43	1800	11 Box 13 Flat	13 Box 6 Flat	None
57	2300	12 Box 1 Flat 14 Gondola 13 Tank	17 Box	None
46	1850	11 Box 3 Flat 2 Gondola 16 Tank	8 Box 6 Flat	None
51	2000	22 Box 5 Flat 3 Tank	13 Box 3 Flat 5 Tank	None
45	1900	15 Box 10 Flat 9 Gondola	3 Box 8 Flat	None
19	840	6 Box 1 Flat 10 Gondola	1 Box 1 Flat	None
24	1000	3 Box 1 Flat 13 Gondola	4 Box 3 Gondola	None
49	1900	24 Box 1 Flat 5 Tank	19 Box	1 Steam

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Table 1. Description of Trains and Lines of Cars at Barnaul (cont'd)

Cars in Train (number)	Length of Train (feet)	4-Axle Cars (no. and type)	2-Axle Cars (no. and type)	Locomotives (no. and type)
58	2360	23 Box 6 Flat 14 Tank	10 Box 5 Flat	None
52	2200	28 Box 8 Gondola 4 Tank	9 Box 2 Flat 1 Tank	None
60	2900	25 Box 1 Flat 3 Tank	23 Box 8 Flat	None
34	1500	2 Box 29 Gondola	3 Box	1 Steam
53	2180	21 Box 7 Gondola 3 Tank	5 Box 17 Gondola	None
54	2500	54 Gondola	None	1 Steam
16	960	14 Passenger	2 Box	1 Steam
16	660	2 Box 2 Gondola	10 Flat 2 Gondola	None
21	690	3 Box 1 Flat 1 Gondola	12 Box 4 Flat	None
18	615	6 Box	12 Box	None
25	920	12 Box	13 Box	None
18	700	6 Box 2 Flat 2 Gondola	6 Box 2 Flat	None

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Table 1. Description of Trains and Lines of Cars at Barnaul (cont'd)

Cars in Train (number)	Length of Train (feet)	4-Axle Cars (no. and type)	2-Axle Cars (no. and type)	Locomotives (no. and type)
29	900	1 Box	28 Gondola	None
77	3560	13 Box 1 Flat 60 Hopper	3 Box	None
Total 1138		734	404	6

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Table 2. 4-Axle and 2-Axle Cars at Barnaul, by Type of Car

Type of Car	4-Axle	2-Axle	Total Cars
Box	338	259	597
Flat	53	73	126
Gondola	172	57	229
Hopper	72	7	79
Passenger	17	-	17
Tank	82	8	90
TOTAL	734	404	1138

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Table 3. Description of Trains and Lines of Cars (15 or more) Present in
Chesnokovka Railroad Station, Yards and Shops, Altayskaya

Cars in Train (number)	Length of Train (feet)	4-Axle Cars (no. and type)	2-Axle Cars (no. and type)	Locomotives (no. and type)
60	2500	31 Box 6 Tank 1 Flat 1 Gondola	21 Box	None
19	700	9 Box 1 Flat	9 Box	None
53	2200	19 Box 2 Flat 8 Gondola 6 Tank	17 Box 1 Flat	1 Steam
51	2100	12 Box 4 Gondola 19 Tank	10 Box 6 Tank	1 Steam
47	2000	11 Box 8 Gondola 8 Hopper 13 Tank	7 Box	1 Steam
51	900	11 Box 13 Flat 1 Tank	23 Box 3 Flat	None
43	1650	9 Box 4 Flat 6 Tank	19 Box 2 Flat 3 Tank	None
66	2600	22 Box 4 Flat 9 Tank	27 Box 4 Flat	None

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Table 3. Description of Trains and Lines of Cars at Chesnokovka (cont'd)

Cars in Train (number)	Length of Train (feet)	4-Axle Cars (no. and type)	2-Axle Cars (no. and type)	Locomotives (no. and type)
61	2400	3 Box 20 Flat 8 Hopper	24 Box 6 Flat	1 Steam
14	620	2 Gondola 5 Hopper 6 Tank	1 Gondola	None
61	2600	23 Box 2 Gondola 15 Hopper 3 Tank	13 Box 5 Flat	1 Diesel/ Electric
34	770	21 Box 8 Flat	3 Box 2 Flat	2 Steam
32	730	1 Box 2 Flat 28 Hopper	1 Flat	None
32	640	9 Box 10 Hopper	7 Box 3 Flat 3 Tank	None
30	730	30 Box	None	None
31	730	30 Box	1 Box	None
62	1100	32 Box	30 Box	1 Steam
48	1150	48 Box	None	None
40	600	1 Box 1 Flat	38 Box	1 Steam
Total 835		546	289	9

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Table 4. 4-Axle and 2-Axle Cars at Chesnokovka, by Type of Car

Type of Car	4-Axle	2-Axle	Total Cars
Box	322	249	571
Flat	56	27	83
Gondola	25	1	26
Hopper	74	-	74
Tank	69	12	81
TOTAL	<u>546</u>	<u>289</u>	<u>835</u>

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REQUIREMENT: This Joint Photographic Intelligence Memorandum has been prepared at HTAUTOMAT by CIA with Army assistance, to satisfy Army requirements and RR/HTA/E/R-71/57 which requests a description of railroad facilities in Barnaul/Chesnovkovka , USSR.

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REFERENCES:

ATMP: 0162-9999-0-25A, 1st Ed., Mar 1955
0162-9999-100A, 1st Ed., Jul 1951

COORDINATES:

Barnaul, 53°20'N/83°48'E
Chesnokovka, 53°25'N/83°56'E

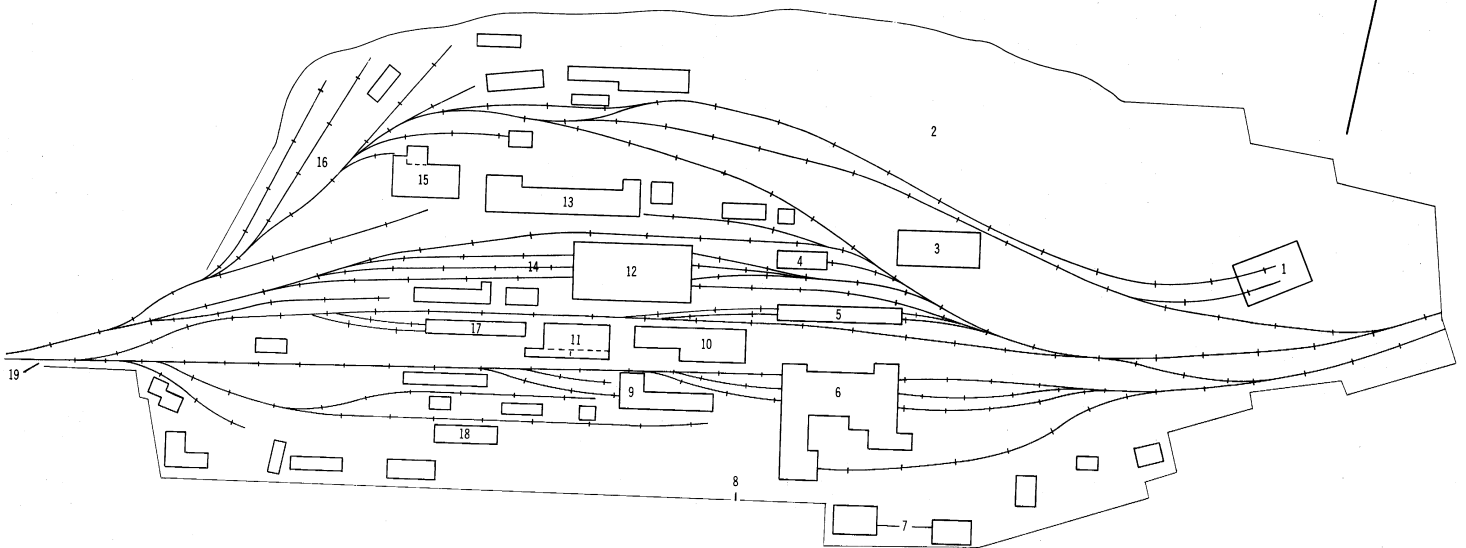
B.E. NUMBERS:

Barnaul
Barnaul Railroad Car Repair Plant
Barnaul Railroad Station, Yards, and
Shops, Main
Barnaul Railroad Car Manufacturing
Plant, Altayskaya
Barnaul Railroad Station, Yards, and
Shops, Altayskaya



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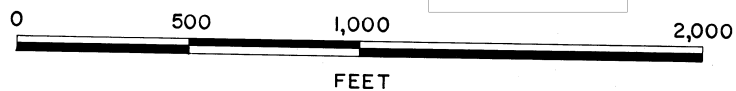
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RAILROAD CAR REPAIR PLANT
BARNAUL, U S S R

53° 22' N - 83° 47' E

DATE OF PHOTOGRAPHY



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Plate 2



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